

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality
Valley Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS
Significant Permit Modification

Trelleborg Engineered Products, Inc. – Seaward Division
Clear Brook, Frederick County, Virginia
Permit No. VRO81170
Effective Date: June 14, 2004
Expiration Date: June 14, 2009

As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Trelleborg Engineered Products, Inc. – Seaward Division has applied for a significant permit modification of its Title V Operating Permit dated June 14, 2004, for its Clear Brook facility. The Department has reviewed the application and has prepared a modified Title V Operating Permit.

Engineer/Permit Contact: _____

Date: _____

Air Permit Manager:

Date:

Deputy Regional Director:

Date:

REQUESTED MODIFICATION

On August 3, 2006, the Valley Regional Office (VRO) received a request from Trelleborg Engineered Products, Inc. – Seaward Division (Trelleborg) for a significant modification to its Title V operating permit.

The requested modification would establish emission limits for hazardous air pollutants (HAPs) to allow Trelleborg to become a synthetic minor source of HAPs. Once the synthetic minor HAP limits are established, Trelleborg's potential to emit (PTE) will be limited to below major source levels for HAPs and they will be able to avoid applicability of several upcoming Maximum Achievable Control Technology (MACT) standards. Conditions related to these MACT standards will also be removed from the Title V operating permit.

Trelleborg's Title V renewal permit has an effective date of June 14, 2004. The permit's expiration date is June 14, 2009.

REASON FOR MODIFICATION

Trelleborg is subject to several MACT standards with upcoming compliance dates (see MACT applicability letter from DEQ dated July 13, 2006). These MACT standards include the Miscellaneous Organic Chemical Manufacturing and Miscellaneous Coating Manufacturing NESHAP (40 CFR 63 Subpart FFFF), the Miscellaneous Metal Parts and Products Surface Coating NESHAP (40 CFR 63 Subpart MMMM), and the Plastic Parts and Products Surface Coating NESHAP (40 CFR 63 Subpart PPPP) with compliance dates for existing sources of May 10, 2008, January 2, 2007, and April 19, 2007, respectively.

Trelleborg reviewed their HAP emissions and determined that the usage of toluene (a regulated HAP) as a raw material in their processes was the only HAP that caused their PTE of HAPs to be above major source threshold levels of 10 tons per year of any individual HAP and 25 tons per year of any combination of HAPs. Through recent production trials, Trelleborg determined that toluene could partially be replaced by ethyl acetate (a non-HAP). Trelleborg began the replacement of toluene as a raw material with ethyl acetate on September 1, 2006.

In the Form 805 application received by DEQ on August 3, 2006, Trelleborg requested that MACT requirements be removed from their Title V operating permit. In order to achieve this request, emission limits for HAPs need to be established in their Title V permit to allow the source to become a synthetic minor source of HAPs. Included with the application were PTE calculations for all HAPs at the facility based on past actual emissions. Trelleborg was asked to recalculate their PTE for all HAPs at the facility based on the maximum capacities of the equipment and the worst case coatings and formulations. Revised PTE calculations were received by DEQ on September 21, 2006 (see summary of HAPs PTE in Attachment A). With the substitution of ethyl acetate for toluene, the hourly and annual PTE of all HAPs are below major source levels of HAPs. The highest PTE for an individual HAP is just over 8.5 tons per year and for any combination of HAPs is just over 18 tons per year. All

year and for any combination of HAPs is just over 18 tons per year. All toxics except the annual emissions of 2,4-Toluene diisocyanate (TDI) are below Virginia Air Toxics exemption levels per 9 VAC 5-60-300 C. An annual emission limit for TDI will be established in a state operating permit (SOP) currently with this permit modification.

Once the synthetic minor HAP limits are established in their Title V permit, Trelleborg's PTE will be limited to below major source levels for HAPs and the MACT standards discussed above will no longer be applicable. Therefore, conditions related to these MACT standards can then be deleted.

After the modification, the facility will still be a Title V major source of VOCs. The facility is located in an attainment area for all pollutants and is a PSD major source. The facility has not received new source review permits; its only permit is the Title V operating permit originally issued June 14, 1999 and renewed with an effective date of June 14, 2004.

APPLICABILITY OF 9 VAC 5-80-230

Significant permit modification procedures shall be used for those permit modifications that:

1. *Involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit, such as a change to the method of monitoring to be used, a change to the method of demonstrating compliance, or a relaxation of reporting or recordkeeping requirements.*

The HAP limits require additional monitoring, reporting, and recordkeeping requirements in the permit.

2. *Require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis.*

The HAP limits require additional emission limits for any single HAP and any combination of HAPs.

3. *Seek to establish or change a permit term or condition for which there is no corresponding underlying applicable federal requirement and that the source has assumed to avoid an applicable federal requirement to which the source would otherwise be subject. Such terms and conditions include:*
 - a. *A federally enforceable emissions cap assumed to avoid classification as a Title I modification; and*
 - b. *An alternative emissions limit approved pursuant to regulations promulgated under §112(i)(5) of the federal Clean Air Act.*

Trelleborg does not have such limits in its Title V operating permit, so this item is not applicable.

The proposed changes meet the regulatory criteria for a Title V significant modification, so the significant permit modification procedures as defined in 9 VAC 5-80-230 apply.

CHANGES TO TITLE V OPERATING PERMIT

Changes to the Title V operating permit resulting from the modification request are as follows:

- The names of the responsible official and the contact person were updated per the Form 805 application dated August 1, 2006 and the Form 7 application dated October 4, 2006.
- In Section II. Emission Units, toluene was deleted as a material stored in the solvent storage tank (Emission Unit # 30) which is part of the Outdoor Storage Tanks (Area 6). Both solvent storage tanks (Emission Units # 29 & 39) now store only ethyl acetate. Toluene was replaced with Ethyl Acetate for the flush tank (Emission Unit # 16).
- In Section VI. Hazardous Air Pollutant Conditions, the section title was changed to Facility Wide Conditions – Hazardous Air Pollutants. All previous conditions in this section that referred to various MACT standards requirements were deleted.
- In Section VI.A, the HAP emission limits of 9.0 tons per year for any individual HAP and 18.5 tons per year of any combination of HAPs were added.
- In Section VI.B, monitoring and recordkeeping requirements were added which require Trelleborg to maintain records of the monthly and annual throughput of each HAP-containing material used at the facility and the monthly and annual individual and total HAP emissions from the facility. Annual throughputs and emissions are to be calculated monthly as the sum of each consecutive 12-month period.
- Section VI.C. was added which requires semiannual reporting of the monthly and annual throughput of each HAP-containing material used at the facility and the monthly and annual individual and total HAP emissions from the facility.
- In Section VIII. Permit Shield & Inapplicable Requirements, the Miscellaneous Coating Manufacturing NESHAP (40 CFR 63 Subpart HHHHH) and the Organic Liquid Distribution NESHAP (40 CFR 63 Subpart EEEE) were listed under requirements which do not apply to the source.
- Section X. State-Only Enforceable Requirements was added to incorporate the annual emission limit for TDI that is being established concurrently in a SOP.

The Table of Contents was updated to reflect the changes in the permit. The permit was updated to reflect recent Title V boilerplate changes.

INAPPLICABLE REQUIREMENTS

The permittee did not identify any inapplicable requirements in the permit application.

The Department has previously determined that several requirements were not applicable (see renewal Statement of Basis for Title V permit dated June 14, 2004). The Department recently determined that the Miscellaneous Coating Manufacturing NESHAP (40 CFR 63 Subpart HHHHH) and the Organic Liquid Distribution NESHAP (OLD MACT) (40 CFR 63 Subpart EEEE) are not applicable (see Department letter dated July 13, 2006). As a result, 40 CFR 63 Subparts HHHHH and EEEE were listed in the Title V operating permit under requirements which do not apply to the source.

PUBLIC PARTICIPATION

The public participation requirements of 9 VAC 5-80-270 apply to significant permit modifications, so a public notice was required before the modified permit could be issued. The draft permit was placed on public notice in The Winchester Star newspaper on October 24, 2006, and the comment period ended 30 days later on November 22, 2006.

Under 9 VAC 5-80-230 and 290, affected states and EPA shall be notified. The proposed modified permit was provided to EPA October 23, 2006. EPA's review period ended 45 days later on December 7, 2006.

No comments were received from either the public or EPA.

ATTACHMENT

Attachment A – Summary of Trelleborg's Potential-to-Emit HAPs